

# Structured Fortran 77 for Engineers and Scientists



This text was designed with three objectives in mind: to introduce engineering and science students to a problem solving technique that they can use in solving engineering problems; to provide a fundamental understanding of computers and to specifically develop a working knowledge of FORTRAN 77; and to motivate and excite students about engineering, and help them understand the types of problems that engineers solve. \* Engineering and Science Applications. Over 600 examples and problems representing a wide range of engineering and science applications, related to engineering disciplines ranging from mechanical, chemical, and electrical engineering to cutting-edge fields such as genetic, robotic and environmental engineering. \* Five-Step Problem Solving Methodology. The five-step problem solving methodology is consistently used throughout this Edition. The five steps are: \* State the problem clearly. \* Describe the input and the output. \* Work the problem by hand (or with a calculator) for a specific set of data. \* Develop a solution that is general in nature. \* Test the algorithm with a variety of data sets. \* Engineering Case Studies. The application sections form a set of 30 engineering case studies. Each case study includes a detailed development of the problems solution along with sample data to illustrate testing the algorithm. \* Complete FORTRAN 77 Coverage. Complete coverage of FORTRAN 77 makes this book not only suitable for the first-time computer user but also as a valuable reference for the experienced user. In addition, only standard FORTRAN 77 statements and structures are used so all programs and statements are compatible with any FORTRAN 77 compiler. \* Fortran 90 Coverage. Fortran 90 is discussed in detailed notes throughout the text and in a special chapter at the end.

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